Intro to Sine, Cosine, and Tangent

Find *r* for each ordered pair.

1) (-3, -4)

2) (5, -12)

3) (4, 2)

4) (6, -7)

5) (-1, 3)

6) (-6, -2)

Find x, y, or r given the other two.

7) x = -3, y = 4, r = ?

8) x = 2, r = $3\sqrt{2}$, y = ?

9) y = -4, r = 7, x = ?

10) x = 24, r = 25, y = ?

Find the requested trigonometric ratio given the ordered pair.

11) $\sin\theta$ for (2, 5)

12) $\tan\theta$ for (-8, 13)

13) $\cos\theta$ for (-1, 1)

14) $\tan\theta$ for (14, -6)

15) $\sin\theta$ for $(-\sqrt{6}, 3)$

16) $\cos\theta$ for (2, 3)

Given one trig ratio and the quadrant, find the other two ratios.

17) $\sin\theta = -\frac{3}{5}$, quadrant IV

18) $\tan\theta = \frac{\sqrt{3}}{3}$, quadrant III

19) $\cos\theta = \frac{\sqrt{2}}{5}$, quadrant II